

Claims

What is claimed is:

1. An isolated and purified human type IX adenylyl cyclase polypeptide comprising the amino acid sequence of Figure 2 (SEQ ID NO:2).
2. An isolated and purified nucleic acid encoding for human type IX adenylyl cyclase.
3. An isolated and purified nucleic acid comprising the nucleotide sequence of Figure 2 (SEQ ID NO:1), which encodes a biologically active human type IX adenylyl cyclase.
4. The nucleic acid of Claim 3, which encodes a biologically active soluble human type IX adenylyl cyclase peptide fragment.
5. A method of producing human type IX adenylyl cyclase which comprises incorporating the nucleic acid of claim 2 into an expression vector, transforming a host cell with said vector and culturing the transformed host cell under conditions which result in expression of the gene.
6. A method of claim 5 wherein said expression vector is pc3hAC9.
7. The method of claim 5 wherein the host cell comprises a bacterial, viral, yeast, insect or mammalian cell line.
8. The method of Claim 7 wherein said host cells are HEK-293 cells.